

Title (en)
POWER OUTLET UNIT

Title (de)
STECKDOSENEINHEIT

Title (fr)
ENSEMBLE DE PRISES ELECTRIQUES

Publication
EP 3061159 B1 20171227 (FR)

Application
EP 14786922 A 20141022

Priority
• FR 1360345 A 20131023
• EP 2014072587 W 20141022

Abstract (en)
[origin: WO2015059163A1] The invention relates to a power outlet unit (1), which includes an electrical socket (2) and an electrical plug (3) that is suitable for electrically engaging the socket (2), removably. The socket (2) includes at least one first and one second electrical contact (22A, 22B) each suitable for respectively engaging an electrical contact having a first and a second concentric electric track (32B) of the plug (3), the electrical contacts (22A, 22B) being movable between a first position in which they are retracted inside the socket (2) and a second position in which they project from the socket (2). The socket (2) is provided with a first magnetic element (23) suitable for engaging a second magnetic element (33) mounted on the plug (3), such as to generate a magnetic force suitable for positioning and maintaining the plug (3) against the socket (2) and for moving the electrical contacts (22A, 22B) in the second position in order to establish electrical contact between the electrical tracks (32B) and the electrical contacts (22A, 22B). The first magnetic element (23) is in the shape of a ring portion and the first electric track is produced from a material suitable for guiding a magnetic field generated by the magnetic elements (23, 33) during the connection of the plug (3) to the socket (2).

IPC 8 full level
H01R 13/62 (2006.01); **H01F 7/02** (2006.01); **H01R 13/453** (2006.01); **H01R 13/629** (2006.01)

CPC (source: EP)
H01F 7/0263 (2013.01); **H01R 13/4532** (2013.01); **H01R 13/6205** (2013.01); **H01R 13/629** (2013.01)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
FR 3012262 A1 20150424; **FR 3012262 B1 20160108**; CN 105684229 A 20160615; CN 105684229 B 20180202; EP 3061159 A1 20160831; EP 3061159 B1 20171227; ES 2659777 T3 20180319; WO 2015059163 A1 20150430

DOCDB simple family (application)
FR 1360345 A 20131023; CN 201480058723 A 20141022; EP 14786922 A 20141022; EP 2014072587 W 20141022; ES 14786922 T 20141022